

29/01/2005

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LOGINID:SSSPTA1626GMS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 26	CA/CAPLUS - Expanded patent coverage to include the Russian Agency for Patents and Trademarks (ROSPATENT)
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:01:50 ON 29 JAN 2005

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:02:04 ON 29 JAN 2005

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 JAN 2005 HIGHEST RN 821767-00-4

DICTIONARY FILE UPDATES: 27 JAN 2005 HIGHEST RN 821767-00-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

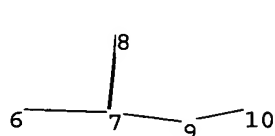
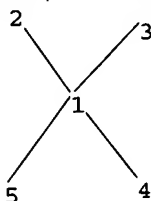
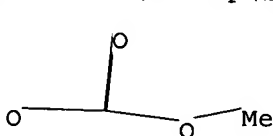
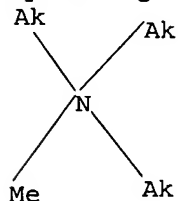
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10776368.str



chain nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

1-2 1-3 1-4 1-5 6-7 7-8 7-9 9-10

exact/norm bonds :

29/01/2005

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1-2 1-3 1-4 6-7 7-8 7-9  
exact bonds :  
1-5 9-10

Match level :

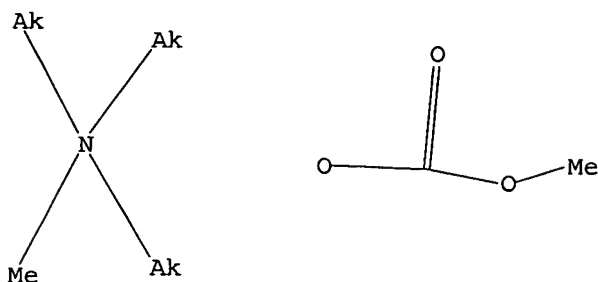
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:02:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5033 TO ITERATE

19.9% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 96407 TO 104913  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:02:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 97843 TO ITERATE

100.0% PROCESSED 97843 ITERATIONS  
SEARCH TIME: 00.00.02

46 ANSWERS

L3 46 SEA SSS FUL L1

=> FIL CAPLUS

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

29/01/2005

10776368.trn

FULL ESTIMATED COST

161.33

161.54

FILE 'CAPLUS' ENTERED AT 16:02:28 ON 29 JAN 2005

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FILE COVERS 1907 - 29 Jan 2005 VOL 142 ISS 6

FILE LAST UPDATED: 28 Jan 2005 (20050128/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4

24 L3

=> s l3/p

L5

13 L3/P

=> s l4 and py<=2001

21605883 PY<=2001

L6

23 L4 AND PY<=2001

=> s l6 and amine

252121 AMINE

238672 AMINES

386481 AMINE

(AMINE OR AMINES)

L7

1 L6 AND AMINE

=> s l6 and ester

556171 ESTER

414561 ESTERS

776373 ESTER

(ESTER OR ESTERS)

L8

2 L6 AND ESTER

=> d l5 ibib abs hitstr tot

L5 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:898606 CAPLUS

DOCUMENT NUMBER: 141:366216

TITLE: Process using a cyclic carbonate reactant and beta-hydroxyurethanes thereby obtained

INVENTOR(S): Van Holen, Jurgen

PATENT ASSIGNEE(S): UCB S.A., Belg.

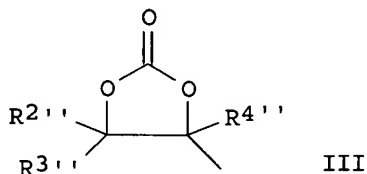
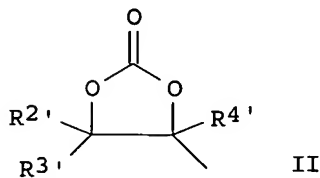
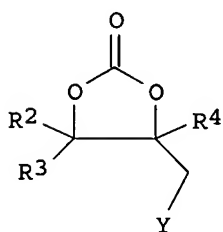
SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1471053	A2	20041027	EP 2004-7925	20040401
EP 1471053	A3	20041201		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 2004236119	A1	20041125	US 2004-821936	20040412
PRIORITY APPLN. INFO.:			EP 2003-9307	A 20030424
OTHER SOURCE(S):	CASREACT 141:366216; MARPAT 141:366216			

GI



AB A component (A) contains at least one cyclic carbonate group having the general formula I, wherein R2, R3 and R4 are, each independently, chosen from hydrogen, alkyl, alkenyl, wherein alkyl and alkenyl may contain from 0 to 8 ether bridges, and/or may be substituted by one or more aryl, hydroxyl group, and/or cyclic carbonate group of formula II, wherein R2', R3' and R4' are, each independently, chosen from hydrogen, alkyl, alkenyl, wherein alkyl and alkenyl may contain from 0 to 8 ether bridges, and/or may be substituted by one or more aryl, hydroxyl group and/or Y group; wherein Y is an electrophilic group selected from ammonium N+(R1)(R1')(R1'')Z- and phosphonium P+((O)nR1)((O)nR1')((O)nR1'')Z-, wherein each n, independently, is 0 or 1 and each R1, R1' and R1'', independently, represents an alkyl optionally substituted by one or more aryl, Y group and/or cyclic carbonate group of formula III, wherein R2'', R3'' and R4'' are, each independently, chosen from hydrogen, alkyl, alkenyl, wherein alkyl and alkenyl may contain from 0 to 8 ether bridges, and/or may be substituted by one or more aryl and/or hydroxyl group; Z- represents an anion; Component (A) is reacted with ammonia, hydrazine or an org. compd. (B) contg. at least one reactive nucleophilic function X wherein each X is, independently, chosen from a primary amino or hydrazo, secondary amino or hydrazo, thiol, hydroxy, and/or oxime; such that the cyclic carbonate is opened and that an org. compd. (C) contg. at least one unit of the general formula -X-CO-O- is formed. Such reactions permit to obtain urethane groups useful in polymer prepn., such as polyurethanes, or other urethane-contg. polymers.

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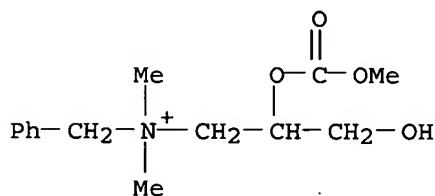
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IT 777094-84-5P 777094-85-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(process using a cyclic carbonate reactant and beta-hydroxyurethanes  
thereby obtained)

RN 777094-84-5 CAPLUS

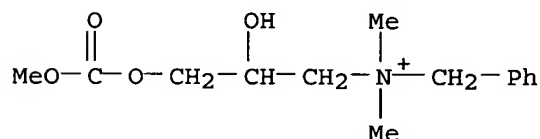
CN Benzenemethanaminium, N-[3-hydroxy-2-[(methoxycarbonyl)oxy]propyl]-N,N-  
dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 777094-85-6 CAPLUS

CN Benzenemethanaminium, N-[2-hydroxy-3-[(methoxycarbonyl)oxy]propyl]-N,N-  
dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L5 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:13255 CAPLUS

DOCUMENT NUMBER: 126:104308

TITLE: Synthesis and antihypertensive activity of some  
1-O-alkylglycero-3-phosphocholine derivatives

AUTHOR(S): Noskov, V. G.; Shishkov, S. V.; Kruglyak, Yu. L.;  
Kiselevskii, M. V.; Dobryanskii, V. S.; Maksimtseva,  
N. N.; Sokal'skii, M. A.

CORPORATE SOURCE: GNII org. Khim. Tekhnol., Moscow, Russia

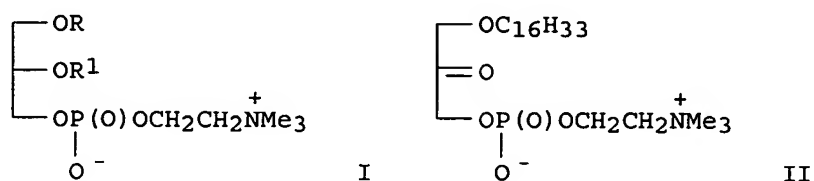
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1996), 30(10), 3-5  
CODEN: KHFZAN; ISSN: 0023-1134

PUBLISHER: Izdatel'stvo Folium

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI



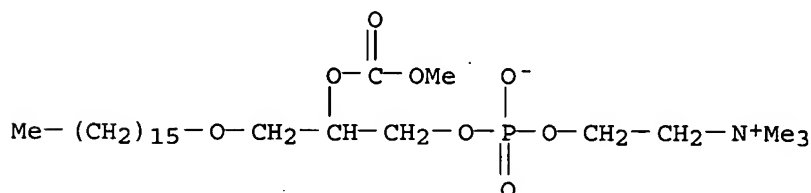
AB Title compds. I [R = C<sub>16</sub>H<sub>33</sub>, C<sub>18</sub>H<sub>37</sub>, CH<sub>2</sub>(CF<sub>2</sub>)<sub>6</sub>H, CH<sub>2</sub>CF<sub>2</sub>(OCF<sub>2</sub>CF<sub>2</sub>)<sub>3</sub>OCF<sub>3</sub>; R<sub>1</sub> = H] were prepared and converted to I (same R; R<sub>1</sub> = acyl, Me). Also prepared was ketone II. The antihypertensive activities of the 3 least toxic compds. were given.

IT 185799-35-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 185799-35-3 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(hexadecyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:248889 CAPLUS

DOCUMENT NUMBER: 124:343749

TITLE: Cardioprotective tocopherol analogs

INVENTOR(S): Grisar, J. Martin; Petty, Margaret A.; Bolkenius, Frank

PATENT ASSIGNEE(S): Hoechst Marion Roussel, Inc., USA

SOURCE: U.S., 12 pp., Cont. of U. S. Ser. No.120,146, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

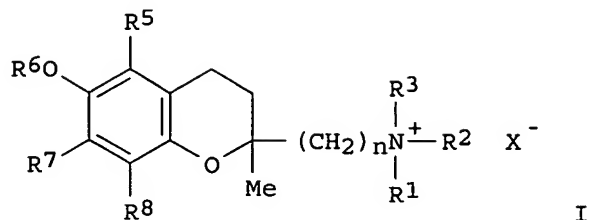
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5500444	A	19960319	US 1994-313657	19940927
PRIORITY APPLN. INFO.:			US 1994-313657	B1 19940927
			US 1993-120146	B2 19930910
			US 1993-65058	B1 19930520
			US 1992-985501	B1 19921201
			US 1992-840482	B2 19920224
			US 1991-774125	B1 19911011
			US 1991-686008	B1 19910412
			US 1990-564670	B1 19900806
OTHER SOURCE(S):			US 1989-436398	19891114
		MARPAT 124:343749		

GI



AB This invention relates to quaternary ammonium salts of certain 2H-1-benzopyran derivs. I, to the intermediates and processes useful for their preparation, to their free-radical scavenger and cellular protective properties and to their end-use application as therapeutic agents. Compds. I can be racemic or R- and S-enantiomers, wherein R1, R2, R3 individually are C1-6-alkyl, X is halide or R4SO3- with R4 being H, C1-6-alkyl, aryl or aralkyl; R5 = H or C1-6-alkyl; R6 = H or C(O)R, where R is H or C1-9-alkyl; R7 = H or C1-6-alkyl; R8 = H or C1-6-alkyl and n = 1-6.

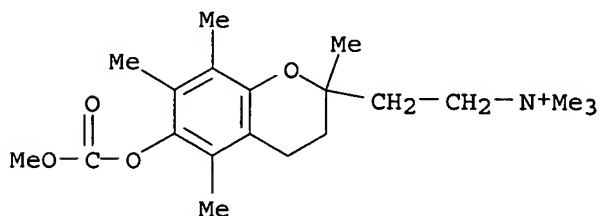
IT 176796-08-0P 176796-10-4P 176796-16-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cardioprotective tocopherol ammonium salt analogs)

RN 176796-08-0 CAPLUS

CN 2H-1-Benzopyran-2-ethanaminium, 3,4-dihydro-6-[(methoxycarbonyl)oxy]-N,N,N,2,5,7,8-heptamethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 176796-10-4 CAPLUS

CN 2H-1-Benzopyran-2-ethanaminium, 3,4-dihydro-6-[(methoxycarbonyl)oxy]-N,N,N,2,5,7,8-heptamethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

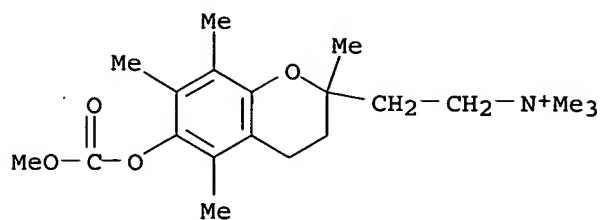
CRN 176796-09-1

CMF C20 H32 N O4



29/01/2005

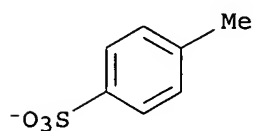
10776368.trn



CM 2

CRN 16722-51-3

CMF C7 H7 O3 S



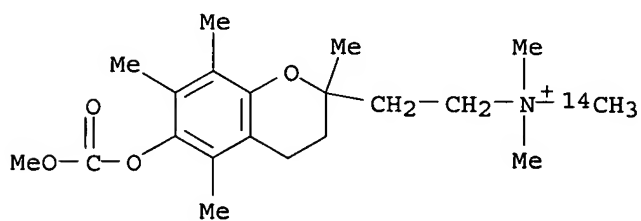
RN 176796-16-0 CAPLUS

CN 2H-1-Benzopyran-2-ethanaminium, 3,4-dihydro-6-[(methoxycarbonyl)oxy]-N,N,2,5,7,8-hexamethyl-N-(methyl-14C)-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 176796-15-9

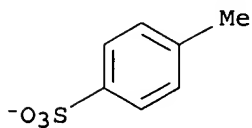
CMF C20 H32 N O4



CM 2

CRN 16722-51-3

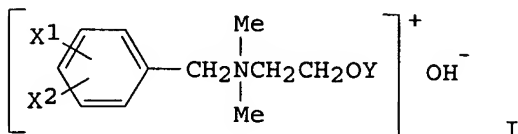
CMF C7 H7 O3 S



L5 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1991:553091 CAPLUS  
 DOCUMENT NUMBER: 115:153091  
 TITLE: Preparation of quaternary ammonium plant growth promoters.  
 INVENTOR(S): Suzuki, Akinori; Hyeon, Suong B.; Kajita, Toshio; Furushima, Masakazu; Yoshinaka, Shigeo; Suzuki, Takashi; Oda, Mitsunori; Tanaka, Akinori  
 PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan  
 SOURCE: Can., 34 pp.  
 CODEN: CAXXA4  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1279769	A1	19910205	CA 1986-524887	19861210
PRIORITY APPLN. INFO.:			CA 1986-524887	19861210
OTHER SOURCE(S):	MARPAT	115:153091		

GI

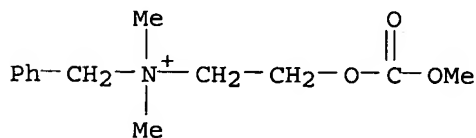


AB I (X1 = H, Cl, Me, CF<sub>3</sub>, NO<sub>2</sub>, MeO, tert-Bu; X2 = H; X1 = X2 = Cl or Me; Y = H, C2-6 alkylcarbonyl, Bz, N-phenylcarbamoyl, N-3,4-dichlorophenylcarbamoyl, chloropropylcarbonyl, methoxycarbonyl, carbamoyl or methacryloyl) are prepared as plant growth promoters for application to stalks, leaves, roots, seeds, or soil. Treating 2-chlorobenzyl chloride with dimethylethanolamine in ether gave I (X1 = 2-Cl; X2 = Y = H; Cl salt) as plant growth promoter.

IT 115786-92-0P 115786-98-6P 115787-10-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as plant growth promoter)

RN 115786-92-0 CAPLUS

CN Benzenemethanaminium, N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



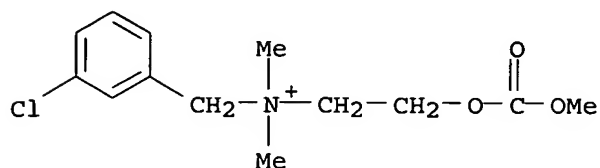
● Br<sup>-</sup>

RN 115786-98-6 CAPLUS

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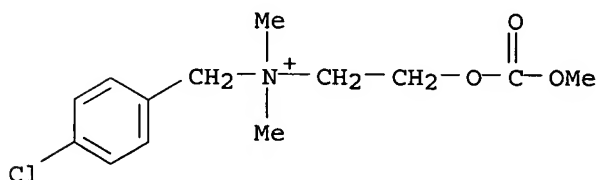
CN Benzenemethanaminium, 3-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 115787-10-5 CAPLUS

CN Benzenemethanaminium, 4-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L5 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:153886 CAPLUS

DOCUMENT NUMBER: 110:153886

TITLE: Process for promoting plant growth with benzyldimethyl(hydroxyethyl)ammonium salts and derivatives, use of the same, and compositions containing them

INVENTOR(S): Suzuki, Akinori; Hyeon, Suong Be; Kajita, Toshio; Furushima, Masakuzu; Yoshinaka, Shigeo; Suzuki, Takashi; Oda, Mitsunori; Tanaka, Akinori

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Braz. Pedido PI, 46 pp.

CODEN: BPXXDX

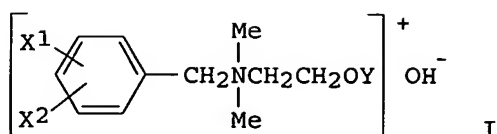
DOCUMENT TYPE: Patent

LANGUAGE: Portuguese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BR 8606167	A	19880705	BR 1986-6167	19861211
PRIORITY APPLN. INFO.:			BR 1986-6167	19861211
OTHER SOURCE(S):	MARPAT	110:153886		
GI				



AB Salts (e.g., halides) derived from quaternary ammonium hydroxides I [X1 = H, Cl, Me, CF<sub>3</sub>, NO<sub>2</sub>, OMe, CMe<sub>3</sub>; X2 = H; or X1 = X2 = Cl or Me; Y = H, C2-6 alkylcarbonyl, Bz, CONHPh, CONHC<sub>6</sub>H<sub>3</sub>Cl<sub>2-3,4</sub>, chloropropylcarbonyl, CO<sub>2</sub>Me, CONH<sub>2</sub>, COCMe:CH<sub>2</sub>] are prepared for use as plant growth promoters. A mixture of 30 mmol each 2-ClC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>Cl and Me<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>OH in 10 mL Et<sub>2</sub>O was kept at room temperature for 2 days to precipitate crystalline

2-ClC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>N<sup>+</sup>Me<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH Cl<sup>-</sup> (II) in

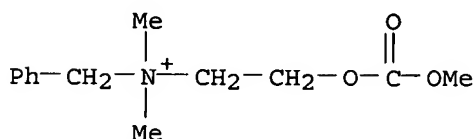
48% yield. Soybean plants immersed in 10 ppm aqueous II for 20 h prior to potting for 10 days had dried leaf and stem wts. of 165% (vs. control), and root wts. of 200%.

IT 115786-92-0P 115786-98-6P 115787-10-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as plant growth promoter)

RN 115786-92-0 CAPLUS

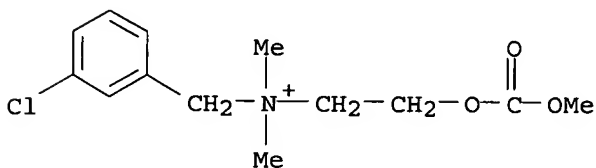
CN Benzenemethanaminium, N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 115786-98-6 CAPLUS

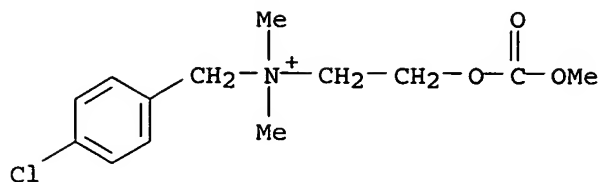
CN Benzenemethanaminium, 3-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 115787-10-5 CAPLUS

CN Benzenemethanaminium, 4-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L5 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:2902 CAPLUS

DOCUMENT NUMBER: 110:2902

TITLE: Plant growth regulators containing quaternary ammonium salts

INVENTOR(S): Suzuki, Akinori; Gen, Jobai; Kajita, Toshio; Furushima, Masakazu; Yoshinaka, Shigeo; Suzuki, Takashi; Oda, Akinori; Tanaka, Akinobu

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63135304	A2	19880607	JP 1986-279839	19861126
PRIORITY APPLN. INFO.:			JP 1986-279839	19861126

OTHER SOURCE(S): MARPAT 110:2902

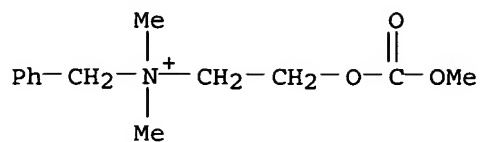
AB Plant growth regulators containing nontoxic salts of [XnC<sub>6</sub>H<sub>5</sub>-nCH<sub>2</sub>(Me<sub>2</sub>)N<sup>+</sup>(CH<sub>2</sub>)<sub>2</sub>OY] OH<sup>-</sup> (I; X = H, Me, Cl, CF<sub>3</sub>, MeO, Me<sub>3</sub>C, NO<sub>2</sub>; Y = H, C<sub>2</sub>-6 alkylcarbonyl, PhCO, N-phenylcarbonyl, CO<sub>2</sub>Me, methacryloyl, chloropropylcarbonyl, 3,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>CO; except X = H ≠ H) are described. A mixture of Me<sub>2</sub>N(CH<sub>2</sub>)<sub>2</sub>OH and 2-ClC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>Cl in ether was kept at room temperature for 2 days to give 48% [2-ClC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>N<sup>+</sup>(Me<sub>2</sub>)(CH<sub>2</sub>)<sub>2</sub>OH] Cl<sup>-</sup>, which at 10 mM showed >15% increase of photosynthesis in wheat crop. A wettable powder was formulated containing PhCH<sub>2</sub>N<sup>+</sup>(Me<sub>2</sub>)(CH<sub>2</sub>)<sub>2</sub>O<sub>2</sub>CPr 50, Na dodecylbenzenesulfonate 2, polyoxyethylenealkyl allyl ether 1, talc 10, and bentonite 37 g.

IT 115786-92-0P 115786-98-6P 115787-10-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as plant growth regulator)

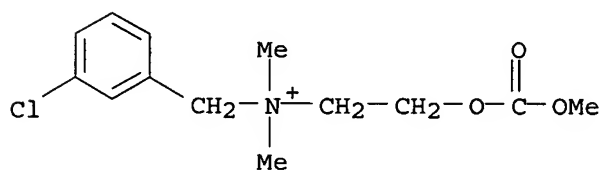
RN 115786-92-0 CAPLUS

CN Benzenemethanaminium, N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

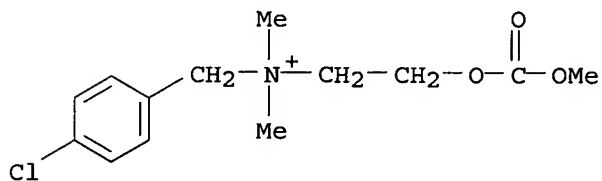
RN 115786-98-6 CAPLUS

CN Benzenemethanaminium, 3-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 115787-10-5 CAPLUS

CN Benzenemethanaminium, 4-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:585473 CAPLUS

DOCUMENT NUMBER: 109:185473

TITLE: Plant growth regulators containing quaternary ammonium salts

INVENTOR(S): Suzuki, Akinori; Gen, Jobai; Tanaka, Akinobu; Furushima, Masakazu

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

29/01/2005

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FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63077801	A2	19880408	JP 1986-217994	19860918
AU 595269	B2	19900329	AU 1986-66334	19861209
AU 8666334	A1	19880609		

PRIORITY APPLN. INFO.: JP 1986-217994 19860918

OTHER SOURCE(S): MARPAT 109:185473

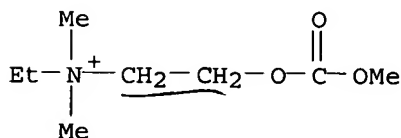
AB Plant growth regulators containing RMe<sub>2</sub>N+[(CH<sub>2</sub>)<sub>2</sub>OX] OH- (I; R = C<sub>2</sub>-5 alkyl, C<sub>2</sub>-5 alkenyl, alkynyl; X = C<sub>2</sub>-8 alkylcarbonyl, PhCO, ClCH<sub>2</sub>CO, MeOCO, H<sub>2</sub>NCO, PO<sub>3</sub>H<sub>2</sub>) and their salts are described. A mixture of PrMe<sub>2</sub>N+(CH<sub>2</sub>)<sub>2</sub>OH Br- and Ac<sub>2</sub>O was heated at 100° to give 72.6% PrMe<sub>2</sub>N+(CH<sub>2</sub>)<sub>2</sub>OAc Br-. H<sub>2</sub>C:CMech<sub>2</sub>(Me<sub>2</sub>)N+(CH<sub>2</sub>)<sub>2</sub>OAc Cl-, at 30 g/10 are, showed 43% increase of rice yield. A wettable powder was formulated containing H<sub>2</sub>C:CHCH<sub>2</sub>(Me<sub>2</sub>)N+(CH<sub>2</sub>)<sub>2</sub>OCCOPh Cl- 50, Na dodecylbenzenesulfonate 2, polyoxyethylene alkyl allyl ether 1, talc 10, and bentonite 37 g.

IT 106579-40-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as plant growth regulator)

RN 106579-40-2 CAPLUS

CN Ethanaminium, N-ethyl-2-[(methoxycarbonyl)oxy]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:493532 CAPLUS

DOCUMENT NUMBER: 109:93532

TITLE: Preparation of glycerides and antitumor agents containing them

INVENTOR(S): Tsushima, Susumu; Kozai, Yoshio

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 82 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 3

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62174011	A2	19870730	JP 1986-231427	19860929
JP 07080766	B4	19950830		

PRIORITY APPLN. INFO.: JP 1985-219874 A1 19851001

AB R1OCH<sub>2</sub>CHR<sub>2</sub>CH<sub>2</sub>XC(O)Y-R<sub>3</sub>-ZR<sub>4</sub> [I; R<sub>1</sub> = alkyl, alkylcarbamoyl; R<sub>2</sub> = H,

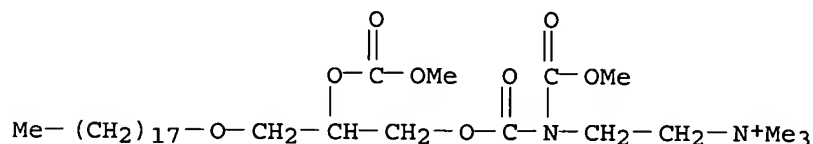
(un)substituted OH, cyclic or (un)substituted NH<sub>2</sub>; R<sub>3</sub> = bond, (un)substituted alkylene; R<sub>4</sub> = H, alkyl, aralkyl; X, Y = O, S, (un)substituted NH; Y = X = NH or Y and R<sub>4</sub> form a ring; Z = (un)substituted NH or N-containing heterocyclyl], useful as antitumor agents, were prepared 2-(Aminomethyl)pyridine and crude 2-O-methyl-3-O-phenoxy carbonyl-1-O-(octadecylcarbamoyl)glycerin [prepared from 2-O-methyl-1-O-(octadecylcarbamoyl)glycerin and PhO<sub>2</sub>CCl in CH<sub>2</sub>Cl<sub>2</sub> containing pyridine] in CHCl<sub>3</sub> was refluxed 12 h to give 84.7% 2-O-methyl-3-O-[N-(2-pyridylmethyl)carbamoyl-1-O-(octadecylcarbamoyl)glycerin which was N-acetylated with Ac<sub>2</sub>O and Et<sub>3</sub>N in CHCl<sub>3</sub> under reflux and then quaternized with EtI under reflux to give 3-[N-acetyl-N-(N'-ethylpyridin-2-yl)methyl]carbamoyl-2-methyl-1-(octadecylcarbamoyl)glycerin chloride (II). Injections containing I were prepared II inhibited the proliferation of KB cells with an ED<sub>50</sub> of 0.16 µg/mL.

IT 100488-49-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation of, as antitumor agent)

RN 100488-49-1 CAPLUS

CN 2,4,7-Trioxa-9-azaundecan-11-aminium, 9-(methoxycarbonyl)-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3,8-dioxo-, iodide (9CI) (CA INDEX NAME)



● I -

L5 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN.

ACCESSION NUMBER: 1988:488199 CAPLUS

DOCUMENT NUMBER: 109:88199

TITLE: Preparation of benzyldimethylammonium compounds as plant growth stimulator

INVENTOR(S): Suzuki, Akinori; Hyeon, Suong Be; Kajita, Toshio; Furushima, Masakazu; Yoshinaka, Shigeo; Suzuki, Takashi; Oda, Mitsunori; Tanaka, Akinori

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Eur. Pat. Appl., 39 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 270701	A1	19880615	EP 1986-117096	19861209
EP 270701	B1	19920311		
R: DE, ES, FR, GB, IT, NL				
US 4929267	A	19900529	US 1986-938872	19861208
ES 2039197	T3	19930916	ES 1986-117096	19861209



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PRIORITY APPLN. INFO.:

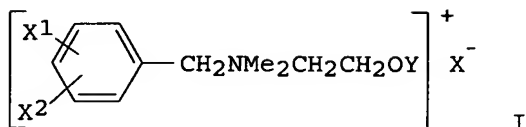
EP 1986-117096

19861209

OTHER SOURCE(S):

CASREACT 109:88199; MARPAT 109:88199

GI



AB The title compds. I (X = anion; X1 = H, Cl, Me, CF3, NO2, MeO, tert-Bu, X2 = H; X1 = X2 = Cl or Me; Y = H, alkylcarbonyl, PhCH2, N-phenylcarbamoyl, etc.) used as salts, are prepared as plant growth stimulators. 2-Chlorobenzyl chloride was added to Me2NCH2CH2OH in Et2O, to give I (X1 = 2-Cl, X2 = Y = H) Cl salt. Treatment with I (X1 = X2 = H, Y = COMe) Br salt (II), at 3 kg/10 are, increased the relative growth rate and net assimilation rate of soybean and corn. A formulation comprised 50 g II, 10 g polyoxyethylene oleyl ether, 10 g triethanolamine lauryl sulfate and 180 g water.

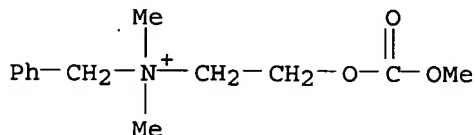
IT 115786-92-0P 115786-98-6P 115787-10-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as plant growth stimulant)

RN 115786-92-0 CAPLUS

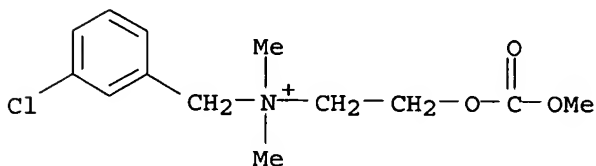
CN Benzenemethanaminium, N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 115786-98-6 CAPLUS

CN Benzenemethanaminium, 3-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

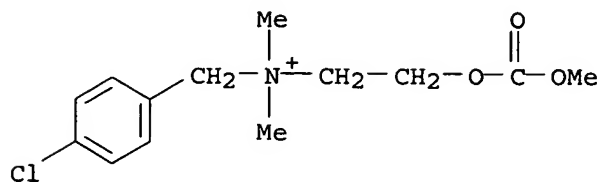


● Cl<sup>-</sup>

RN 115787-10-5 CAPLUS

CN Benzenemethanaminium, 4-chloro-N-[2-[(methoxycarbonyl)oxy]ethyl]-N,N-

dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:63031 CAPLUS

DOCUMENT NUMBER: 106:63031

TITLE: Plant growth promotion

INVENTOR(S): Suzuki, Akinori; Hyeon, Suong Be; Tamano, Akira; Tanaka, Akinori; Furushima, Masakazu

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 206028	A1	19861230	EP 1986-107622	19860604
EP 206028	B1	19890920		
R: DE, FR, GB, IT				
JP 61282302	A2	19861212	JP 1985-123812	19850607
JP 06072081	B4	19940914		
CA 1280004	A1	19910212	CA 1986-510766	19860604
AU 8658375	A1	19861211	AU 1986-58375	19860605
AU 592571	B2	19900118		
CN 86104810	A	19870304	CN 1986-104810	19860607
CN 1012609	B	19910515		
US 5032170	A	19910716	US 1990-610441	19901105
PRIORITY APPLN. INFO.:			JP 1985-123812	A 19850607
			US 1986-870394	B1 19860604

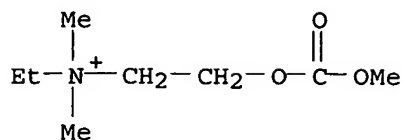
AB The quaternary NH<sub>4</sub> compds. [RNMe<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OX]<sup>+</sup>OH<sup>-</sup> (R = C<sub>2</sub>-5 alkyl, alkenyl or alkynyl; X = H, alkylcarbonyl, CONH<sub>2</sub>, Bz, ClCHCO, CO<sub>2</sub>Me, PO<sub>3</sub>H<sub>2</sub>) are prepared as plant-growth stimulators. Thus, a mixture of 8.91 g Me<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>OH, 11.45g H<sub>2</sub>C:CHCH<sub>2</sub>Cl and 30 mL Et<sub>2</sub>O was stirred for 2 days to give [H<sub>2</sub>C:CHCH<sub>2</sub>NMe<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH]<sup>+</sup>Cl<sup>-</sup> (I). In pot expts., 0.3 mM I increased in rice the root length by 24% and the length of the overground portion by 4%, as compared to controls.

IT 106579-40-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as plant-growth stimulator)

RN 106579-40-2 CAPLUS

CN Ethanaminium, N-ethyl-2-[(methoxycarbonyl)oxy]-N,N-dimethyl-, chloride  
(9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:88143 CAPLUS

DOCUMENT NUMBER: 104:88143

TITLE: Glycerol derivatives and their pharmaceutical use

INVENTOR(S): Nomura, Hiroaki; Nishikawa, Kohei; Tsushima, Susumu

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd. , Japan

SOURCE: Eur. Pat. Appl., 219 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 157609	A2	19851009	EP 1985-302202	19850329
EP 157609	A3	19870128		
EP 157609	B1	19921014		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
WO 8504398	A1	19851010	WO 1984-JP163	19840403
W: MC				
WO 8602349	A1	19860424	WO 1984-JP476	19841011
W: MC				
WO 8604894	A1	19860828	WO 1985-JP62	19850215
W: MC				
AT 81501	E	19921015	AT 1985-302202	19850329
PRIORITY APPLN. INFO.:			WO 1984-JP163	A 19840403
			WO 1984-JP476	A 19841011
			WO 1985-JP62	A 19850215
			EP 1985-302202	A 19850329

AB R1OCH2CHR2CH2ZCOZ1Z2Z3R3 [I; R1 = alkyl, alkylcarbamoyl; R2 = H, (un)modified OH, amino, cyclic amino; R3 = H, alkyl, aralkyl; Z, Z1 = O, S, (un)substituted imino; Z2 = bond, (un)substituted alkylene; Z3 = imino, N heterocycle; when Z1 = imino, it may form a ring with Z or R3] (>170 compds) were prepared Thus, Me(CH2)17OCH2CH(CH2R4)OCH2Ph (II, R4 = OH) was esterified with PhO2CCl to give II (R4 = PhO2CO) which was treated with Me2NCH2CH2NH2 to give II (R4 = Me2NCH2CH2NHC(=O)2). The latter was successively debenzylated by hydrogenation over Pd/C, acetylated, and quaternized with MeI to give Me(CH2)17OCH2CH(OAc)CH2O2CNACH2CH2N+Me3I- (III). At 3 + 10-6M III totally inhibited blood platelet aggregation. I are also effective antihypotensives in mice at 0.1-1.0 mg/kg i.v.

IT 100488-49-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

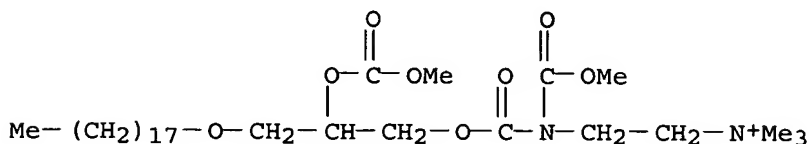
(preparation of, as antihypotensive and platelet aggregation inhibitor)

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RN 100488-49-1 CAPLUS

CN 2,4,7-Trioxa-9-azaundecan-11-aminium, 9-(methoxycarbonyl)-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3,8-dioxo-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

L5 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:453484 CAPLUS

DOCUMENT NUMBER: 99:53484

TITLE: Phospholipid derivatives and their pharmaceutical composition

INVENTOR(S): Teraji, Tsutomu; Todo, Eishiro; Shimazaki, Norihiko; Oku, Teruo; Namiki, Takayuki

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 59 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 70433	A1	19830126	EP 1982-105875	19820701
EP 70433	B1	19851127		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4493832	A	19850115	US 1982-391918	19820624
JP 58013592	A2	19830126	JP 1982-113353	19820630
JP 02059833	B4	19901213		

PRIORITY APPLN. INFO.: GB 1981-20612 A 19810703

AB Antihypertensive (no data) RCH<sub>2</sub>CH(OCO<sub>2</sub>R<sub>1</sub>)CH<sub>2</sub>OP(O)(OR<sub>2</sub>)OnXR<sub>3</sub> (R = alkyl, alkoxy, alkylthio, aralkoxy, acylamino; R<sub>1</sub> = alkyl, aralkyl; R<sub>2</sub> = H, alkyl; R<sub>3</sub> = alkylammonium, pyridinium; X = alkylene; n = 0, 1) were prepared. Thus, Me(CH<sub>2</sub>)<sub>11</sub>OCH<sub>2</sub>CH(OH)CH<sub>2</sub>OCPH<sub>3</sub> was treated with ClCO<sub>2</sub>Me and detritylated to give Me(CH<sub>2</sub>)<sub>11</sub>OCH<sub>2</sub>CH(OCO<sub>2</sub>Me)CH<sub>2</sub>OH which was treated with BrCH<sub>2</sub>CH<sub>2</sub>P(O)Cl<sub>2</sub> to give Me(CH<sub>2</sub>)<sub>11</sub>OCH<sub>2</sub>CH(OCO<sub>2</sub>Me)CH<sub>2</sub>OP(O)(R<sub>4</sub>)OCH<sub>2</sub>CH<sub>2</sub>Br (I, R<sub>4</sub> = Cl). Hydrolysis of I (R<sub>4</sub> = Cl) gave I (R<sub>4</sub> = OH) which was treated with Me<sub>3</sub>N to give Me(CH<sub>2</sub>)<sub>11</sub>OCH<sub>2</sub>CH(OCO<sub>2</sub>Me)CH<sub>2</sub>OP(O)(O<sup>-</sup>)CH<sub>2</sub>CH<sub>2</sub>N<sup>+</sup>Me<sub>3</sub>.

IT 86478-42-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and debenzoylation of)

RN 86478-42-4 CAPLUS

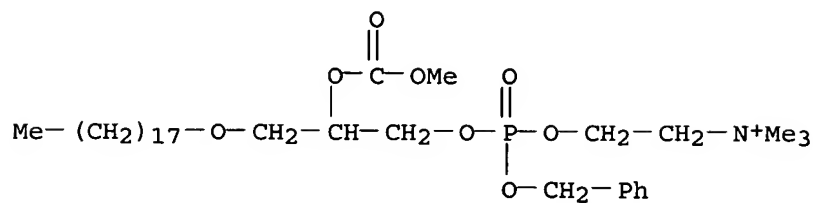
CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3-oxo-8-(phenylmethoxy)-, salt with 2,4,6-trinitrophenol (1:1), 8-oxide (9CI) (CA INDEX NAME)

CM 1

29/01/2005

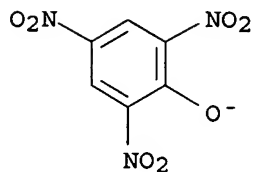
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CRN 86478-41-3  
CMF C35 H65 N O8 P



CM 2

CRN 14798-26-6  
CMF C6 H2 N3 O7

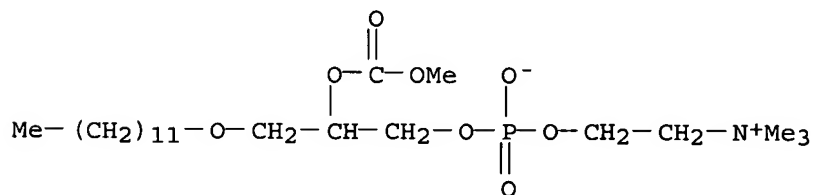


IT 86478-17-3P 86478-19-5P 86478-20-8P  
86478-21-9P 86478-22-0P 86478-23-1P  
86478-26-4P 86478-28-6P 86478-35-5P  
86478-36-6P 86478-37-7P 86478-38-8P  
86478-39-9P 185799-35-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

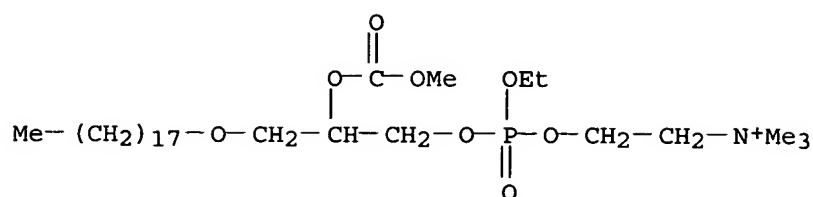
RN 86478-17-3 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(dodecyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



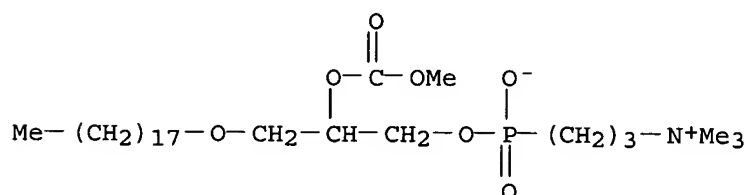
RN 86478-19-5 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-ethoxy-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3-oxo-, bromide, 8-oxide (9CI) (CA INDEX NAME)



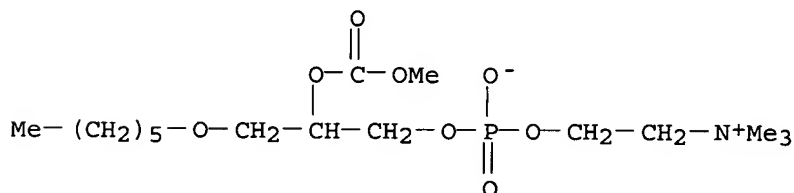
RN 86478-20-8 CAPLUS

CN 2,4,7-Trioxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



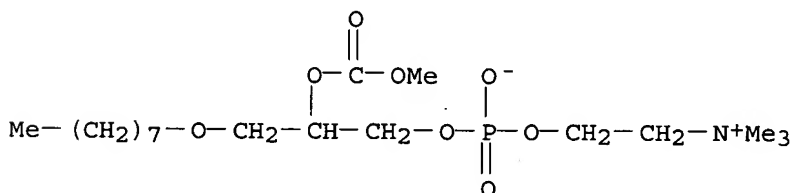
RN 86478-21-9 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(hexyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



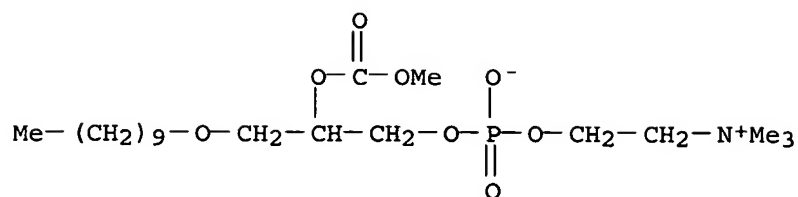
RN 86478-22-0 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-5-[(octyloxy)methyl]-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



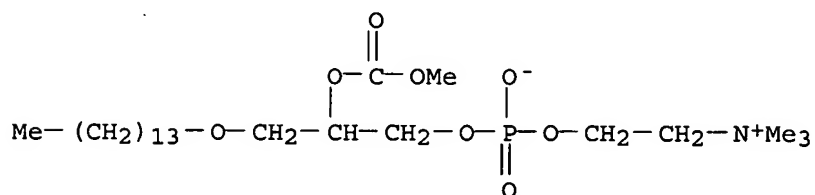
RN 86478-23-1 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(decyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



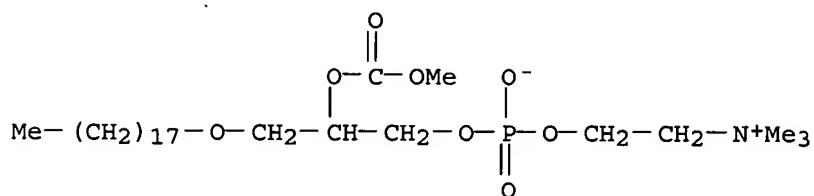
RN 86478-26-4 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-3-oxo-5-[(tetradecyloxy)methyl]-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



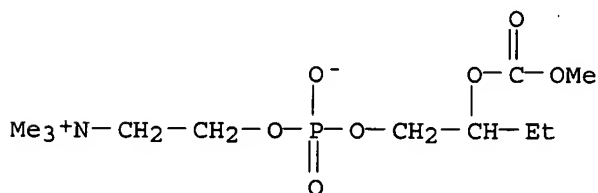
RN 86478-28-6 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-5-[(octadecyloxy)methyl]-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



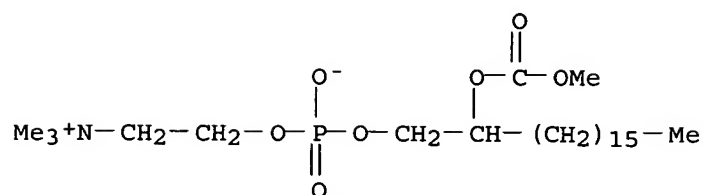
RN 86478-35-5 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-ethyl-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



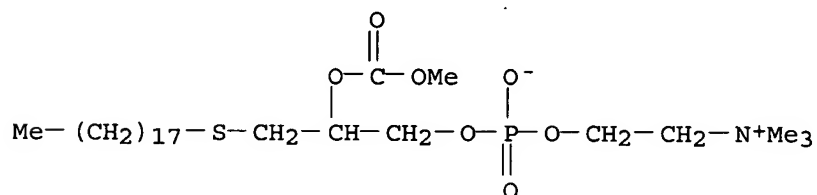
RN 86478-36-6 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-hexadecyl-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



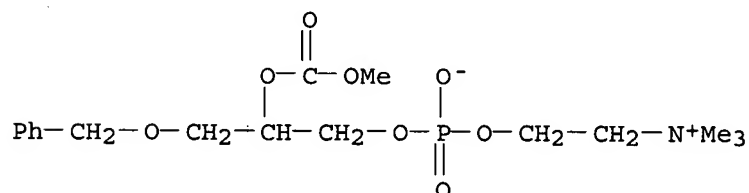
RN 86478-37-7 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-5-[(octadecylthio)methyl]-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



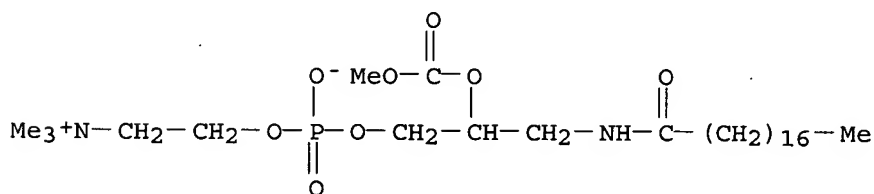
RN 86478-38-8 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-3-oxo-5-[(phenylmethoxy)methyl]-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



RN 86478-39-9 CAPLUS

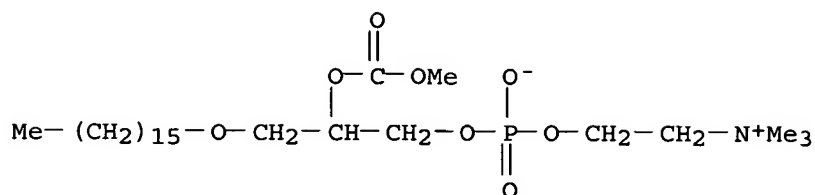
CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 8-hydroxy-N,N,N-trimethyl-3-oxo-5-[[[(1-oxooctadecyl)amino]methyl]-, inner salt, 8-oxide (9CI) (CA INDEX NAME)



RN 185799-35-3 CAPLUS

CN 2,4,7,9-Tetraoxa-8-phosphaundecan-11-aminium, 5-[(hexadecyloxy)methyl]-8-hydroxy-N,N,N-trimethyl-3-oxo-, inner salt, 8-oxide (9CI) (CA INDEX NAME)





L5 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1971:529443 CAPLUS

DOCUMENT NUMBER: 75:129443

TITLE: Derivatives based on 2-alkoxy-5-alkylbenzyl chlorides and methyl 2-(chloromethyl)-4-alkylphenyl carbonates  
 AUTHOR(S): Chernyavskaya, T. A.; Romadane, I.; Konycheva, V. V.; Salova, I. V.

CORPORATE SOURCE: Rzh. Politekh. Inst., Riga, USSR

SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (1971), (3), 352-5

CODEN: LZAKAM; ISSN: 0002-3248

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI For diagram(s), see printed CA Issue.

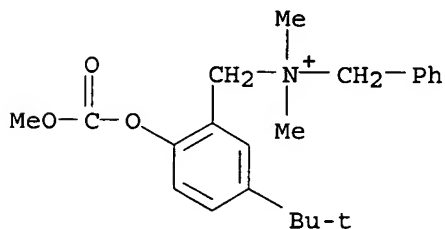
AB Substituted benzyl chlorides (I, X = Cl) reacted with NH<sub>4</sub>SCN to give 63-82% I (X = SCN, R = alkyl, and R<sub>1</sub> = CO<sub>2</sub>Me or alkyl). I (X = Cl) and tertiary amines R<sub>2</sub>3N gave quaternary ammonium salts (I, X = NR<sub>2</sub>3<sup>+</sup> Cl<sup>-</sup>).

IT 33859-34-6P 33859-35-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 33859-34-6 CAPLUS

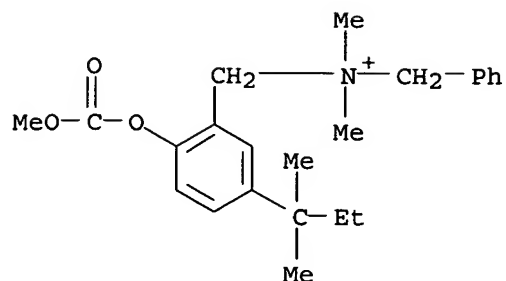
CN Ammonium, benzyl(5-tert-butylsalicyl)dimethyl-, chloride, methyl carbonate (ester) (8CI) (CA INDEX NAME)



● Cl<sup>-</sup>

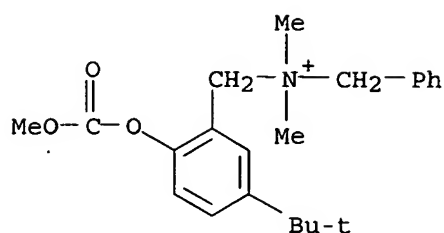
RN 33859-35-7 CAPLUS

CN Ammonium, benzyldimethyl(5-tert-pentylsalicyl)-, chloride, methyl carbonate (ester) (8CI) (CA INDEX NAME)



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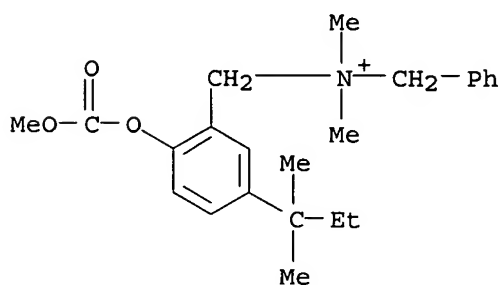
L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1971:529443 CAPLUS  
 DOCUMENT NUMBER: 75:129443  
 TITLE: Derivatives based on 2-alkoxy-5-alkylbenzyl chlorides and methyl 2-(chloromethyl)-4-alkylphenyl carbonates  
 AUTHOR(S): Chernyavskaya, T. A.; Romadane, I.; Konycheva, V. V.; Salova, I. V.  
 CORPORATE SOURCE: Rzh. Politekh. Inst., Riga, USSR  
 SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (1971), (3), 352-5  
 CODEN: LZAKAM; ISSN: 0002-3248  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI For diagram(s), see printed CA Issue.  
 AB Substituted benzyl chlorides (I, X = Cl) reacted with NH<sub>4</sub>SCN to give 63-82% I (X = SCN, R = alkyl, and R<sub>1</sub> = CO<sub>2</sub>Me or alkyl). I (X = Cl) and tertiary amines R<sub>2</sub>3N gave quaternary ammonium salts (I, X = NR<sub>2</sub>3+ Cl<sup>-</sup>).  
 IT 33859-34-6P 33859-35-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 33859-34-6 CAPLUS  
 CN Ammonium, benzyl(5-tert-butylsalicyl)dimethyl-, chloride, methyl carbonate (ester) (8CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 33859-35-7 CAPLUS

CN Ammonium, benzyldimethyl(5-tert-pentylsalicyl)-, chloride, methyl carbonate (ester) (8CI) (CA INDEX NAME)



● Cl<sup>-</sup>

=> d 18 ibib abs hitstr tot

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:145678 CAPLUS

DOCUMENT NUMBER: 124:216649

TITLE: Conformational analysis of acetylcholine and related choline **esters**

AUTHOR(S): Frydenvang, Karla; Jensen, Birthe

CORPORATE SOURCE: Dep. Med. Chem., R. Danish Sch. Pharmacy, Copenhagen, DK-2100, Den.

SOURCE: Acta Crystallographica, Section B: Structural Science (1996), B52(1), 184-93

CODEN: ASBSDK; ISSN: 0108-7681

PUBLISHER: Munksgaard

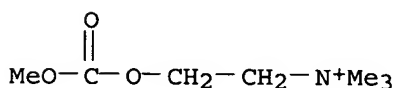
DOCUMENT TYPE: Journal

LANGUAGE: English

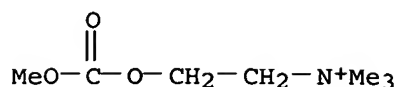
AB The crystal structures of carbamoylcholine [2-(carbamoyloxy)-N,N,N-trimethylethanaminium] chloride, bromide and iodide, methoxycarbonylcholine [2-(methoxycarbonyloxy)-N,N,N-trimethylethanaminium] iodide, acetylcholine [2-(acetyloxy)-N,N,N-trimethylethanaminium] chloride and succinylcholine {2,2'-[(1,4-dioxo-1,4-

butanediyl)bis(oxy)]bis(N,N,N-trimethylethanaminium)} iodide were redetd. at 105 K to obtain detailed and accurate information on the geometry of choline **esters** and to elucidate the conformationally dependent changes of geometry. Atomic coordinates are given. The conformational flexibility and the preferred conformations are elucidated based on results obtained from x-ray crystallog. studies and mol. mechanics (MM2) calcns. The usefulness of mol. mechanics calcns. for quaternary ammonium ions is discussed.

IT 70384-36-0, Methoxycarbonylcholine iodide  
 RL: PRP (Properties)  
 (crystal structure and conformational anal. of)  
 RN 70384-36-0 CAPLUS  
 CN Ethanaminium, 2-[(methoxycarbonyl)oxy]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1980:603798 CAPLUS  
 DOCUMENT NUMBER: 93:203798  
 TITLE: Ab initio calculations of electrostatic potentials and deformation densities for a series of choline **ester** model systems  
 AUTHOR(S): Johansen, Helge; Rettrup, Sten; Jensen, Birthe  
 CORPORATE SOURCE: Dep. Chem. Phys., Tech. Univ. Denmark, Lyngby, DK-2800, Den.  
 SOURCE: Theoretica Chimica Acta (1980), 55(4), 267-81  
 CODEN: TCHAAM; ISSN: 0040-5744  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Ab initio LCAO-MO-SCF calcns. using a double zeta basis set are performed for AcOMe, NH<sub>2</sub>CO<sub>2</sub>Me, (MeO)<sub>2</sub>CO, and CF<sub>3</sub>CO<sub>2</sub>Me as models for the corresponding choline **esters**. The systems are compared using population analyses, electron d. differences, electrostatic potentials and potential differences. The significance of the electrostatic potential in connection with crystal structure and packing is examined. The differences in the proton affinity of the compds. are correlated to differences in the potentials.  
 IT 70384-36-0  
 RL: PRP (Properties)  
 (electrostatic mol. potentials of, MO calcns. of)  
 RN 70384-36-0 CAPLUS  
 CN Ethanaminium, 2-[(methoxycarbonyl)oxy]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)



● I<sup>-</sup>

=> s ammonium alkylcarbonate

341006 AMMONIUM

396 AMMONIUMS

341151 AMMONIUM

(AMMONIUM OR AMMONIUMS)

49 ALKYL CARBONATE

26 ALKYL CARBONATES

71 ALKYL CARBONATE

(ALKYL CARBONATE OR ALKYL CARBONATES)

L9 0 AMMONIUM ALKYL CARBONATE

(AMMONIUM (W) ALKYL CARBONATE)

=> s quaternary ammonium alkylcarbonate

118561 QUATERNARY

330 QUATERNARIES

118702 QUATERNARY

(QUATERNARY OR QUATERNARIES)

341006 AMMONIUM

396 AMMONIUMS

341151 AMMONIUM

(AMMONIUM OR AMMONIUMS)

49 ALKYL CARBONATE

26 ALKYL CARBONATES

71 ALKYL CARBONATE

(ALKYL CARBONATE OR ALKYL CARBONATES)

L10 0 QUATERNARY AMMONIUM ALKYL CARBONATE

(QUATERNARY (W) AMMONIUM (W) ALKYL CARBONATE)

=> s alkylcarbonate

49 ALKYL CARBONATE

26 ALKYL CARBONATES

L11 71 ALKYL CARBONATE

(ALKYL CARBONATE OR ALKYL CARBONATES)

=> s l10 and ammonium

341006 AMMONIUM

396 AMMONIUMS

341151 AMMONIUM

(AMMONIUM OR AMMONIUMS)

L12 0 L10 AND AMMONIUM

=> s l10 and amine

252121 AMINE

238672 AMINES

386481 AMINE

(AMINE OR AMINES)

L13 0 L10 AND AMINE

=> s l10 and ester

556171 ESTER

414561 ESTERS

776373 ESTER

(ESTER OR ESTERS)

L14 0 L10 AND ESTER

=> s l11 and ester

556171 ESTER

414561 ESTERS

776373 ESTER

(ESTER OR ESTERS)

L15 20 L11 AND ESTER

=> s l11 and ammonium

341006 AMMONIUM

396 AMMONIUMS

341151 AMMONIUM

(AMMONIUM OR AMMONIUMS)

L16 4 L11 AND AMMONIUM

=> s l11 and amine

252121 AMINE

238672 AMINES

386481 AMINE

(AMINE OR AMINES)

L17 5 L11 AND AMINE

=> d his

(FILE 'HOME' ENTERED AT 16:01:50 ON 29 JAN 2005)

FILE 'REGISTRY' ENTERED AT 16:02:04 ON 29 JAN 2005

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 46 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:02:28 ON 29 JAN 2005

L4 24 S L3

L5 13 S L3/P

L6 23 S L4 AND PY<=2001

L7 1 S L6 AND AMINE

L8 2 S L6 AND ESTER

L9 0 S AMMONIUM ALKYL CARBONATE

L10 0 S QUATERNARY AMMONIUM ALKYL CARBONATE

L11 71 S ALKYL CARBONATE

L12 0 S L10 AND AMMONIUM

L13 0 S L10 AND AMINE

L14 0 S L10 AND ESTER

L15 20 S L11 AND ESTER

L16 4 S L11 AND AMMONIUM

L17 5 S L11 AND AMINE

=> s l11 and quaternary

118561 QUATERNARY

330 QUATERNARIES

118702 QUATERNARY

(QUATERNARY OR QUATERNARIES)

L18 4 L11 AND QUATERNARY

=> d 118 ibib abs hitstr tot

L18 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1997:21146 CAPLUS  
DOCUMENT NUMBER: 126:52892  
TITLE: Ink-jet recording receptor  
INVENTOR(S): Suzuki, Katsumitsu; Kato, Makoto  
PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

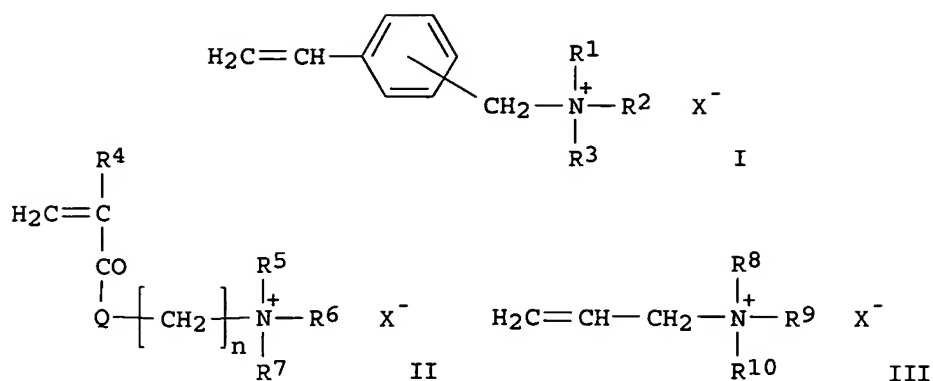
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08267904	A2	19961015	JP 1995-70073	19950328
PRIORITY APPLN. INFO.:			JP 1995-70073	19950328

AB The receptor comprises an opaque support successively coated with an ink-fixing layer containing a crosslinked copolymer with a **quaternary** ammonium salt and an ink-permeating layer containing a water-insol. binder and silica sol with primary particle size 10-100 nm dispersed in an organic solvent. The copolymer may be prepared from monomers CH<sub>2</sub>:CR<sub>1</sub>COQ(CH<sub>2</sub>)<sub>n</sub>N+R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>.X-, CH<sub>2</sub>:CH(p-C<sub>6</sub>H<sub>4</sub>)CH<sub>2</sub>N+R<sub>5</sub>R<sub>6</sub>R<sub>7</sub>.X-, and CH<sub>2</sub>:CHCH<sub>2</sub>N+R<sub>8</sub>R<sub>9</sub>R<sub>10</sub>.X- [R<sub>1</sub> = H, Me; Q = O, NH; R<sub>2</sub>-10 = C<sub>1</sub>-6 alkyl benzyl, aryl; X- = halo ion, (alkyl) sulfonate, acetate, **alkylcarbonate**; n = 2-3]. The receptor shows good water resistance, ink absorption, and abrasion resistance and gives high d. full-color images with brightness.

L18 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1996:472936 CAPLUS  
DOCUMENT NUMBER: 125:181354  
TITLE: Ink-jet recording receptor  
INVENTOR(S): Ikeda, Mitsuhiro; Kato, Makoto  
PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08142496	A2	19960604	JP 1994-287035	19941122
PRIORITY APPLN. INFO.:			JP 1994-287035	19941122

GI



AB The receptor has an ink absorbing layer prepared by mixing a polymer (A) containing **quateryary** ammonium salt I (R1-3 = alkyl, aryl, aralkyl; X- = halo ion, sulfate, alkylsulfonate, **alkylcarbonate**) as a monomer unit and another polymer (B) containing II and/or III (R4 = H, Me; Q = O, NH; R5-7 = Me, Et; R8-10 = Me, Et, alkyl; X- = same as above; n = 2, 3) as monomer unit(s), then 3-dimensionally crosslinking the polymers by an hardening agent. The receptor shows good water resistance.

L18 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:907770 CAPLUS

DOCUMENT NUMBER: 123:313436

TITLE: Process for the preparation of 3-cyano-3,5,5-trimethylcyclohexanone [isophorone nitrile]

INVENTOR(S): Mundinger, Klaus; Laqua, Gerhard; Witzel, Tom; Merger, Franz

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

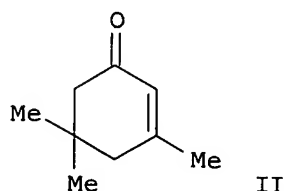
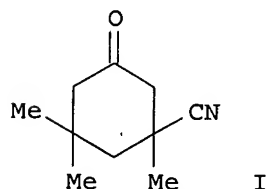
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 671384	A1	19950913	EP 1995-102923	19950302
EP 671384	B1	19991103		
R: BE, DE, FR, GB				
DE 4407487	A1	19950914	DE 1994-4407487	19940307
US 5516928	A	19960514	US 1995-395322	19950228
PRIORITY APPLN. INFO.:			DE 1994-4407487	A 19940307
OTHER SOURCE(S):	CASREACT 123:313436; MARPAT 123:313436			
GI				





AB The title compound (I), an intermediate for the monomer isophoronediamine, is prepared by a method using improved catalysts. Thus, isophorone (II) reacts with HCN to give I, at 80-180° and 0.5-20 bar, in the presence of an ammonium salt catalyst R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>N<sup>+</sup> X<sup>-</sup> [R<sub>1</sub>-R<sub>4</sub> = C<sub>1</sub>-18 alkyl, C<sub>5</sub>-8 cycloalkyl, aryl, C<sub>7</sub>-18 aralkyl, C<sub>2</sub>-18 hydroxyalkyl; X = OCO<sub>2</sub>H, or OCO<sub>2</sub>R<sub>4</sub> where R<sub>4</sub> = C<sub>1</sub>-8 alkyl]. For example, a mixture of 3 mol HCN and 1.5 mol II was added over 60 min to a mixture of 4.5 mol II and 30 mmol Me<sub>4</sub>N<sup>+</sup> MeOCO<sub>2</sub><sup>-</sup> at 120°. Acidification with 3.5 g 85% H<sub>3</sub>PO<sub>4</sub> and distillation at 0.1 mbar gave I in 99% or 96.2% yield (based on unreacted II or fed HCN, resp.). In comparison, use of Et<sub>4</sub>N<sup>+</sup> CN<sup>-</sup> catalyst gave 89.6% yield based on fed HCN. Also used as catalysts were BuMe<sub>3</sub>N<sup>+</sup> MeOCO<sub>2</sub><sup>-</sup>, and Et<sub>3</sub>MeN<sup>+</sup> MeOCO<sub>2</sub><sup>-</sup>, which gave similar results.

L18 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:537540 CAPLUS

DOCUMENT NUMBER: 109:137540

TITLE: A method for manufacturing a high-purity  
**quaternary** ammonium hydroxide in a  
cation-exchanger electrochemical cell

INVENTOR(S): Aoyama, Tetsuo; Shima, Eiji; Ishikawa, Jiro

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63057790	A2	19880312	JP 1986-197994	19860826
PRIORITY APPLN. INFO.:			JP 1986-197994	19860826

OTHER SOURCE(S): MARPAT 109:137540

AB The title method involves electrolysis of RR<sub>1</sub>R<sub>2</sub>R<sub>3</sub>NOCOOR<sub>4</sub> (R, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> = C<sub>1</sub>-8 alkyl, hydroxyalkyl, C<sub>2</sub>-9 alkoxyalkyl, aryl, or hydroxyaryl; and R<sub>4</sub> = alkyl or aryl). Thus, a Me<sub>4</sub>NOH solution containing Na 0.004, Fe 0.005, K and Ca 0.002, Al, Ni, Co, Cr, Zn, and Mn ≤ 0.001, and Cl ≤ 0.01 ppm was prepared by electrolysis of tetramethylammonium monoethylcarbonate.

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L17 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:610551 CAPLUS

DOCUMENT NUMBER: 139:152071

TITLE: Oil based well fluids with high solids content

INVENTOR(S): Patel, Arvind D.; Bell, Reginald; Hoxha, Burhan; Friedheim, Jim

PATENT ASSIGNEE(S): M-I L.L.C., USA

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

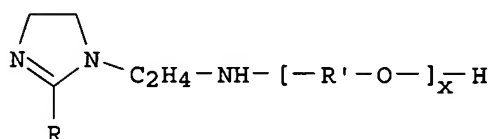
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003064556      A1      20030807      WO 2003-US2903      20030131
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    CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
    GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
    LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
    PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
    UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW:  GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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    FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
    BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2003158046      A1      20030821      US 2002-62854      20020131
US 6770602          B2      20040803
EP 1483353          A1      20041208      EP 2003-704080      20030131
R:   AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
    IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.:      US 2002-62854      A 20020131
                                WO 2003-US2903      W 20030131

OTHER SOURCE(S):      MARPAT 139:152071
GI

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AB A fluid having utility in petroleum wells is formulated to include: an oleaginous fluid; and an alkoxyated 1-(2-aminoethyl)-2-alkyl-2-imidazoline solids tolerance agent having the formula of (I): in which R is a C6 to C20 aliphatic group and R' is a C2 to C6 aliphatic group and x has a value from .apprx.1 to .apprx.10. Preferably R' is selected from Et and isoPr and R' is an unsatd. aliphatic group. The fluid is formulated such that the oleaginous fluid is from .apprx.30% to .apprx.99% by volume of said fluid. In one illustrative embodiment, the oleaginous fluid is composed of from .apprx.5% to .apprx.100% by volume of the oleaginous fluid of a material selected from a group consisting of diesel oil, mineral oil, synthetic oil, esters, ethers, acetals, di **alkylcarbonates**, olefins, and combinations of these and similar fluids. A nonoleaginous fluid may also be included in the formulation that is from .apprx.1% to .apprx.70% by volume of said fluid. The nonoleaginous fluid is preferably selected from sea water, a brine containing organic or inorg. dissolved salts,

a liquid containing water-miscible organic compds., and combinations thereof.

Also included in the fluid formulation may be weighting agents, fluids loss agents, viscosity agents and other similar agents used in the formulation of oil-based and invert emulsion drilling fluids.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:728069 CAPLUS

DOCUMENT NUMBER: 131:336734

TITLE: Preparation of alkylammonium tetrafluoroborates as electrolytes for battery and capacitor

29/01/2005

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INVENTOR(S): Ishida, Tatsukazu; Tatsuki, Yuichirou; Mita, Satoko  
PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11315055	A2	19991116	JP 1998-121276	19980430
PRIORITY APPLN. INFO.:			JP 1998-121276	19980430

OTHER SOURCE(S): CASREACT 131:336734; MARPAT 131:336734

AB Title compds. R<sub>2</sub>N+R<sub>1</sub>R<sub>3</sub>R<sub>4</sub> -BF<sub>4</sub> (R<sub>1</sub>-R<sub>3</sub> = C<sub>1</sub>-4 alkyl; R<sub>4</sub> = Me, Et) are prepared by reaction of R<sub>2</sub>NR<sub>1</sub>R<sub>3</sub> (R<sub>1</sub>-R<sub>3</sub> = same as above) with (R<sub>4</sub>O)<sub>2</sub>CO (R<sub>4</sub> = Me, Et), hydrolysis of R<sub>2</sub>N+R<sub>1</sub>R<sub>3</sub>R<sub>4</sub> -OCO<sub>2</sub>R<sub>4</sub> (R<sub>1</sub>-R<sub>4</sub> = same as above), and reaction of R<sub>2</sub>N+R<sub>1</sub>R<sub>3</sub>R<sub>4</sub> -OCO<sub>2</sub>H (R<sub>1</sub>-R<sub>4</sub> = same as above) with HBF<sub>4</sub>. NEt<sub>3</sub> was reacted with (MeO)<sub>2</sub>CO in MeOH at 120° for 15 h, hydrolyzed in H<sub>2</sub>O at 60° under 20 mmHg, and reacted with HBF<sub>4</sub>/H<sub>2</sub>O at 25° to give 80% triethylmethyllammonium tetrafluoroborate with ≥99% purity..

L17 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:34331 CAPLUS  
DOCUMENT NUMBER: 120:34331  
TITLE: Gear oil compositions for automobiles  
INVENTOR(S): Kunugi, Toshio; Watanabe, Yoshihisa  
PATENT ASSIGNEE(S): Cosmo Sogo Kenkyusho Kk, Japan; Cosmo Oil Co Ltd  
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05209184	A2	19930820	JP 1991-48719	19910222
PRIORITY APPLN. INFO.:			JP 1991-48719	19910222

AB The composition comprises a base oil blended with (1) 0.1-10 S- or P-containing extreme pressure agent, (2) 1-20 alkali metal borate hydrate, and (3) 5-50 weight% components selected from monoester, diester, polyolester, **alkylcarbonate**, polyoxyethylene alkylether, and polyoxyethylene alkylphenylether.

L17 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:109057 CAPLUS  
DOCUMENT NUMBER: 118:109057  
TITLE: Water treatment method using polymeric compounds  
INVENTOR(S): Ambler, Philip William; Hodgson, Philip Kenneth  
Gordon; Stewart, Nevin John  
PATENT ASSIGNEE(S): British Petroleum Co. PLC, UK  
SOURCE: Brit. UK Pat. Appl., 9 pp.  
CODEN: BAXXDU  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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GB 2248843                      A1      19920422                      GB 1991-15422                      19910717  
PRIORITY APPLN. INFO.:                      GB 1990-16061                      A      19900721  
AB      Polymers produced from aminoalkyl(meth)acrylates having **amine**  
         groups optionally blocked by an **alkylcarbonate** group followed by  
         unblocking of the **amine** group, are used to destabilize  
         oil-in-water emulsions. The compds. are suitable for destabilizing fresh  
         or saltwater emulsions of crude oil and/or petroleum products.

L17 ANSWER 5 OF 5    CAPLUS    COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER:                      1991:560565    CAPLUS  
DOCUMENT NUMBER:                      115:160565  
TITLE:                                  Catalyzed dialkyl dicarbonate compositions as blowing  
         agents for polymers  
INVENTOR(S):                              Franklin, Ralph; Parr, William John E.; Fesmam,  
         Gerald; Jacobs, Barry Alan  
PATENT ASSIGNEE(S):                      AKZO N. V., Neth.  
SOURCE:                                  Eur. Pat. Appl., 12 pp.  
         CODEN: EPXXDW  
DOCUMENT TYPE:                              Patent  
LANGUAGE:                                  English  
FAMILY ACC. NUM. COUNT:                      2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 400709	A2	19901205	EP 1990-201261	19900518
EP 400709	A3	19910814		
R: CH, DE, ES, FR, GB, IT, LI, NL				
US 4983320	A	19910108	US 1989-353852	19890518
CA 2016535	AA	19901118	CA 1990-2016535	19900511
JP 03068636	A2	19910325	JP 1990-128937	19900518
PRIORITY APPLN. INFO.:                      US 1989-353852                      A      19890518				

OTHER SOURCE(S):                      MARPAT 115:160565  
AB      A catalyzed blowing agent composition, useful for manufacturing polymeric  
foams,  
         comprises (A)  $\geq 1$  alkyl-substituted dicarbonate and (B) a  
         dicarbonate decomposition catalyst comprising a tertiary **amine** having  
          $\geq 1$  sterically accessible N atom which exhibits high  
         nucleophilicity. The use of dicarbonates as blowing agents is desirable  
         based on environment considerations. Thus, an automotive-type flexible  
         polyurethane foam prepared using 3.0 parts diisopropyl dicarbonate (I) as an  
         auxiliary blowing agent and 0.30 weight parts triethylenediamine catalyst  
         showed d. 1.25 lbs/ft<sup>3</sup>, breathability 6.3 ft<sup>3</sup>/min, and indentation force  
         deflection 15.9 lbs, compared with 1.25, 6.1, and 23.3, resp., for a  
         similar urethane foam using the more hazardous CH<sub>2</sub>Cl<sub>2</sub> instead of I.

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L16 ANSWER 1 OF 4    CAPLUS    COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER:                      1997:21146    CAPLUS  
DOCUMENT NUMBER:                      126:52892  
TITLE:                                  Ink-jet recording receptor  
INVENTOR(S):                              Suzaki, Katsumitsu; Kato, Makoto  
PATENT ASSIGNEE(S):                      Mitsubishi Paper Mills Ltd, Japan  
SOURCE:                                  Jpn. Kokai Tokkyo Koho, 11 pp.  
         CODEN: JKXXAF  
DOCUMENT TYPE:                              Patent  
LANGUAGE:                                  Japanese

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08267904	A2	19961015	JP 1995-70073	19950328

PRIORITY APPLN. INFO.: JP 1995-70073 19950328

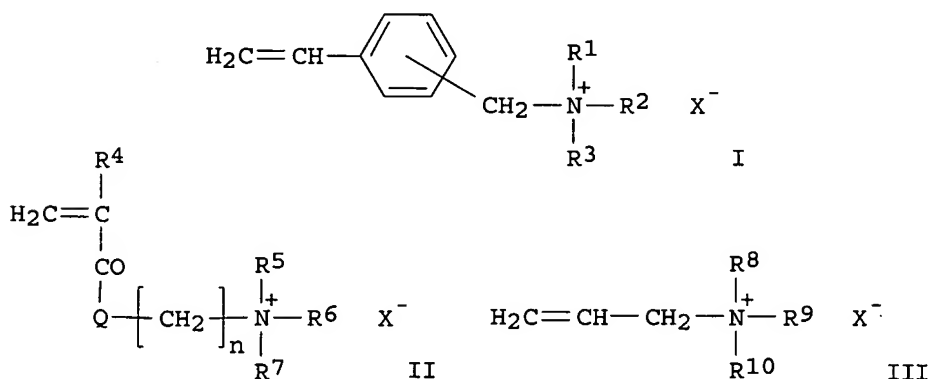
AB The receptor comprises an opaque support successively coated with an ink-fixing layer containing a crosslinked copolymer with a quaternary ammonium salt and an ink-permeating layer containing a water-insol. binder and silica sol with primary particle size 10-100 nm dispersed in an organic solvent. The copolymer may be prepared from monomers  $\text{CH}_2:\text{CR}_1\text{COQ}(\text{CH}_2)_n\text{N}+\text{R}_1\text{R}_2\text{R}_3.\text{X}^-$ ,  $\text{CH}_2:\text{CH}(\text{p-C}_6\text{H}_4)\text{CH}_2\text{N}+\text{R}_5\text{R}_6\text{R}_7.\text{X}^-$ , and  $\text{CH}_2:\text{CHCH}_2\text{N}+\text{R}_8\text{R}_9\text{R}_{10}.\text{X}^-$  [ $\text{R}_1 = \text{H, Me}$ ;  $\text{Q} = \text{O, NH}$ ;  $\text{R}_2-10 = \text{C}_1-6$  alkyl benzyl, aryl;  $\text{X}^- = \text{halo ion, (alkyl) sulfonate, acetate, alkylcarbonate}$ ;  $n = 2-3$ ]. The receptor shows good water resistance, ink absorption, and abrasion resistance and gives high d. full-color images with brightness.

L16 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:472936 CAPLUS  
 DOCUMENT NUMBER: 125:181354  
 TITLE: Ink-jet recording receptor  
 INVENTOR(S): Ikeda, Mitsuhiro; Kato, Makoto  
 PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08142496	A2	19960604	JP 1994-287035	19941122

PRIORITY APPLN. INFO.: JP 1994-287035 19941122  
 GI



AB The receptor has an ink absorbing layer prepared by mixing a polymer (A) containing quaternary ammonium salt I ( $\text{R}_1-3 = \text{alkyl, aryl, aralkyl}$ ;  $\text{X}^- = \text{halo ion, sulfate, alkylsulfonate, alkylcarbonate}$ ) as a monomer unit and another polymer (B) containing II and/or III ( $\text{R}_4 = \text{H, Me}$ ;  $\text{Q} = \text{O, NH}$ ;  $\text{R}_5-7 = \text{Me, Et}$ ;  $\text{R}_8-10 = \text{Me, Et, alkyl}$ ;  $\text{X}^- = \text{same as above}$ ;  $n = 2, 3$ ) as monomer unit(s), then 3-dimensionally crosslinking the polymers by an

hardening agent. The receptor shows good water resistance.

L16 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:907770 CAPLUS

DOCUMENT NUMBER: 123:313436

TITLE: Process for the preparation of 3-cyano-3,5,5-trimethylcyclohexanone [isophorone nitrile]

INVENTOR(S): Mundinger, Klaus; Laqua, Gerhard; Witzel, Tom; Merger, Franz

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

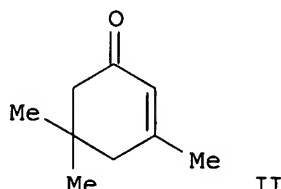
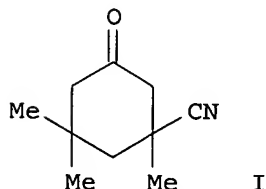
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 671384	A1	19950913	EP 1995-102923	19950302
EP 671384	B1	19991103		
R: BE, DE, FR, GB				
DE 4407487	A1	19950914	DE 1994-4407487	19940307
US 5516928	A	19960514	US 1995-395322	19950228
PRIORITY APPLN. INFO.:			DE 1994-4407487	A 19940307
OTHER SOURCE(S):		CASREACT 123:313436; MARPAT 123:313436		
GI				



AB The title compound (I), an intermediate for the monomer isophoronediamine, is prepared by a method using improved catalysts. Thus, isophorone (II) reacts with HCN to give I, at 80-180° and 0.5-20 bar, in the presence of an **ammonium** salt catalyst R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>N<sup>+</sup> X<sup>-</sup> [R<sub>1</sub>-R<sub>4</sub> = C<sub>1</sub>-18 alkyl, C<sub>5</sub>-8 cycloalkyl, aryl, C<sub>7</sub>-18 aralkyl, C<sub>2</sub>-18 hydroxyalkyl; X = OCO<sub>2</sub>H, or OCO<sub>2</sub>R<sub>4</sub> where R<sub>4</sub> = C<sub>1</sub>-8 alkyl]. For example, a mixture of 3 mol HCN and 1.5 mol II was added over 60 min to a mixture of 4.5 mol II and 30 mmol Me<sub>4</sub>N<sup>+</sup> MeOCO<sub>2</sub><sup>-</sup> at 120°. Acidification with 3.5 g 85% H<sub>3</sub>PO<sub>4</sub> and distillation at 0.1 mbar gave I in 99% or 96.2% yield (based on unreacted II or fed HCN, resp.). In comparison, use of Et<sub>4</sub>N<sup>+</sup> CN<sup>-</sup> catalyst gave 89.6% yield based on fed HCN. Also used as catalysts were BuMe<sub>3</sub>N<sup>+</sup> MeOCO<sub>2</sub><sup>-</sup>, and Et<sub>3</sub>MeN<sup>+</sup> MeOCO<sub>2</sub><sup>-</sup>, which gave similar results.

L16 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:537540 CAPLUS

DOCUMENT NUMBER: 109:137540

TITLE: A method for manufacturing a high-purity quaternary **ammonium** hydroxide in a cation-exchanger electrochemical cell

INVENTOR(S): Aoyama, Tetsuo; Shima, Eiji; Ishikawa, Jiro

PATENT ASSIGNEE(S): Mitsubishi Gas Chemical Co., Inc., Japan

29/01/2005

10776368.trn

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63057790	A2	19880312	JP 1986-197994	19860826
PRIORITY APPLN. INFO.:			JP 1986-197994	19860826

OTHER SOURCE(S): MARPAT 109:137540

AB The title method involves electrolysis of RR1R2R3NOCOOR4 (R, R1, R2, R3 = C1-8 alkyl, hydroxyalkyl, C2-9 alkoxyalkyl, aryl, or hydroxyaryl; and R4 = alkyl or aryl). Thus, a Me4NOH solution containing Na 0.004, Fe 0.005, K and Ca 0.002, Al, Ni, Co, Cr, Zn, and Mn  $\leq$  0.001, and Cl  $\leq$  0.01 ppm was prepared by electrolysis of tetramethylammonium monoethylcarbonate.

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
150.93	312.47

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-21.17	-21.17

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